

Schlumberger

PRIMARY CEMENTING PROPOSAL

2 7/8 IN. LONGSTRING

ARNOLD OIL PROPERTIES

PITZER TRUST 1-2

Well Location

County : Custer
State : Okla
Country : USA

Prepared for : Steve Kester
Date Prepared : 1-Jun-07

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Disclaimer Notice:
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EXHIBIT

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tabbles

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Well Data: 2 7/8 in. Longstring

< Surface	Depth	13,444 ft.
	Casing Size	2 7/8 in., 6.5 lbs./ft.
	Open Hole Diameter	5 3/4 in.
	Previous Csg. Depth	11,130 ft.
	Previous Csg. Size	5 1/2 in., 17 lbs./ft.
	BHST	230 °F
	BHCT	210 °F
	Total Excess	1 %
	Tail Excess	1 %

< Previous Csg.
 11,130 ft.

Mud Wt./Type: 12.3 ppq Fresh Wtr. BasedCalculations:Volume Factors:

< Top of Cement 11,900 ft.	Casing x Open Hole	0.1352 cu.ft./ft
	Casing x Previous Casing	0.0861 cu.ft./ft
	Casing (Internal)	0.0321 cu.ft./ft

Top of Cement 11,900 ft.

Cement System:

Open Hole Fill $(1,544 \times 0.1352 \times 1.01) / 1.07 = 197 \text{ sks.}$
 Casing Shoe Cement $(40 \times 0.0321) / 1.07 = 1 \text{ sks.}$
 Total Tail Cement = 199 sks.

< T.D. - 13,444 ft.

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Cementing Systems

Spacer System: 20 bbls .

MUDPUSH MPUSH II mixed @ 14.0 PPG

Cement System: 200 sks.

Class H + 0.2% D167 + 0.2% D65 + 0.5% D800 + 0.05 gps D47

Mix Weight	:	16.4 PPG	
Yield	:	1.07 cu.ft./sk.	
Mix Water	:	4.29 gal./sk.	(Fresh Water)

Performance parameters for cement systems recommended are typically taken from existing laboratory data. In some cases, data exist which duplicate the recommended systems and job environment, but when these data do not exist, extrapolations are made from data which most closely match the anticipated conditions. Sufficient lead-time should always be allowed, so that pilot samples/weld blends can be run to verify system performance parameters, before actually pumping the job.

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Cementing Services Pricing

Units	UOM	Description	Unit Price	Disc. %	Extended Price
MATERIALS AND EQUIPMENT:					
1	EA.	PUMP CHARGE 13444 FT 1ST 8HRS	25,500.00	48	13,260.00
1	EA.	STANDBY CMT. PUMPER (4 HOURS)	6,300.00	48	3,276.00
4	HRS.	ADDITIONAL HRS. ON PUMP	1,210.00	48	2,516.80
1	EA.	BATCH MIXER 100 BBLs	4,360.00	48	2,267.20
4	HRS.	ADDITIONAL HRS. ON BATCH MIXER	356.00	48	740.48
8	HRS.	CEMENT BULK UNITS TIME ON LOCATION	230.00	48	956.80
60	EA.	ROUNDTRIP MILEAGE (CARS/TRUCKS)	5.51	48	171.91
1	EA.	CemCAT/PRISM/TREATMENT DATA SERVICE	1,880.00	48	977.60
200	SKS.	CLASS H CEMENT	42.15	48	4,383.80
62	CWT.	D31 BARITE WT. AGT.	77.10	48	2,485.70
94	LBS.	D800 MIDTEMP RETARDER	13.10	48	640.33
20	GALS.	D47 ANTIFOAMER	100.70	48	1,047.28
38	LBS.	D167 UNIFLAC	93.40	48	1,845.58
38	LBS.	D65 TIC DISPERSANT	16.05	48	317.15
4	GALS.	L55 CLAY STABILIZER	134.50	48	279.76
20	BBLs.	D970 MUDPUSH II	254.00	48	2,641.60
60	MILES	MILEAGE ON 3 UNITS	9.53	48	892.01
378	T.M.	HAULING 12.6 TONS	3.58	48	703.68
246	CU.FT.	SERVICE CHG.	4.86	48	621.69
4	Units	DOT TRUCK SURCHARGE	725.00	48	1,508.00
4	EA.	FUEL	325.00	0	1,300.00
					=====
SUBTOTAL (PRICEBOOK)				\$	81,171.50
EFFECTIVE DISCOUNT				47.23 %	38,338.32
					=====
<u>DISCOUNTED TOTAL PRICE</u>				\$	42,833.18

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This quote is valid for a period of thirty days from the date submitted. These prices are estimates based on current price structure and will vary somewhat with the materials, equipment, and time actually required at the time of service. The discount shown will be applicable to the most current Dowell price book in effect at the time of service. Not included are the costs of fluid storage, oil, water, (or transportation thereof) except as listed. Dowell does not offer these services.

The cement slurry data presented are from systems previously tested in Dowell laboratories. Thickening time tests should be run when field mix water is available and final temperatures are known. Mud\Cement compatibility tests should be run when final mud systems are in use. These tests could cause quantity variations of the materials recommended, thereby affecting the price of the job.

In the interest of safety, a pre-job tailgate safety meeting will be held with your representative and other on-location personnel to familiarize everyone with existing hazards and safety procedures. During this meeting a designated wash-up area will be assigned for our cementing unit to dispose of our cement slurry and drilling mud displacement fluid.

Thank you for considering Dowell for this work. Please do not hesitate to call with any questions or concerns.

Felipe Germini
El Reno Okla

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